

POLYMER ELECTROLYTE AND ITS MANUFACTURING METHOD

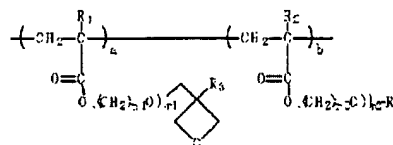
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[57] Abstract:

PROBLEM TO BE SOLVED: To provide a polymer electrolyte that has a high ion conductivity even in the vicinity of room temperature and has an excellent film forming performance, flexibility, and mechanical strength. **SOLUTION:** This is a polymer electrolyte which contains a polymer compound made of a ring-opening polymer of oxetane compound having an acrylate skeleton as expressed by the formula (1) (provided that, in the formula (1), a and b are each independently 10-600, m1 and m2 are each independently 1-6, n1 and n2 are each independently 1 ≤ n1 ≤ 20, 1 ≤ n2 ≤ 20, and R₁, R₂ expresses an alkyl group having carbon number 1-12 that may be branched each independently or hydrogen atom. R₃ and R₄ are alkyl group having carbon number 1-12 that may be branched each independently), a nonaqueous solvent, and an electrolyte salt, and the quantity of the nonaqueous solvent is 5-400 parts weight to the 100 parts weight of the above polymer compound.

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